

Datasheet for ABIN3135765

FAM178A Protein (AA 1-1278) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	FAM178A
Protein Characteristics:	AA 1-1278
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAM178A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MTRRCMPARP GFPSSPAPGS SPPRCHLRPG STAPAAAGKR TESPGRKQS IIDFFKPAAK</p> <p>QDKHMLDSPQ KSNIKYRGNG LSITGTEQFE RKLSSPKKLK PKRMSSEESP ILEAFMKGGK</p> <p>EHHKDRGVHE SRRPCMSLSK YLPKGAGIYA PSSYRLPKEI KAQKKKHQSP ERRKSLFIHE</p> <p>SNREKNDRDR GKNSEDSRKQ ATATEGDIFK HSSRSISSRS SLRHHHPGES TLGARFQLSL</p> <p>ASYWREREQK KLRKEQMEQR INSENSFSEA SNLSLKSSGV GKNCKPRHEH SKHTEAVPGK</p> <p>SNLSTLENGH LSRKRSSSDS WELSGSKQNK FSDKRTEELC GLRPEKHKRT YHTKSKRVLS</p> <p>REAPRHIPSE RKVYQTHCTE DSWWCSALGR HSQGAGKTVS RGMSIASTLR LYLGRVISQL</p> <p>WKMDISQEKD HLQTRGNFQA LNRINSPTKE QRNSVDSDLK STKEPIIPKA RESFLEKRPD</p> <p>TSHQREKFIR HIALKTPGGV LRLEDIAKEP EDETDRSSAD SAPSNAGHHS SRNSDQVHSA</p> <p>STKETKIQKP HLPLPQEKST IKRASNLQKN KPAGSVTSKE TKLPLLHVP SAVSSRVPLN</p> <p>AKNCTLPVPK KDKERSSSKE RSGHSTESSK HKEHRAKTIK AVSNESSGKN SGGSLHSEYA</p>

PPTASPPAAL EVVPSVPSPA APSDKESSGN SNAGSNALKR KFRGDFDSDE ESLGYTLESD
EEEETLKSLE EIMALNFSRT PTTSGKPPAV SKGLRSQSSD MKEYAQSGTY TNTLERLVKE
MEDTQRLDEL QKKLQEDIRQ GRGIKSPLRT GDQDSTDDGD GLLEEHRFL KKFSVTVDAL
PDHHPGEEIF NFLNSGKIFN QYTLDLRDSG FIGESAVEKL ILKSGKTDQI FLTTQGFLT
AYHYVQCPVP VLKWLFRMMS VHTDCIVSVQ ILSTLMEITI RNDTFSDSPV WPWIPSLSDI
AAVFFNMGVG FGSLFPLETL QPDFNEENLI SETQKTGGK ESESPYSPV FSALPETNIL
NVVKFLGLCT SIHPEGYQDG ELMILLMLF KMSLEKELKQ IPLVDFQSL INLMKNIRDW
NTKVHELCLG INELSSHPhn LLWLVLQVPN WTSRGRQLRQ CLSLVMMMSKL LDEKHEDIPN
ANNLQISVLH RYLVQMKPSD LLKKMVLKKR AEQPNETIDD SLHLELEKQA YYLTYILLHL
VGEVSCSHSL SSGQRKHfVL LCGALEKHVK CDIREdARLF YRTKVkdLVA RIHGKWQEI
QNCrPTQGQL HdfWVPDS

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system -

Product Details

all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	FAM178A
Alternative Name:	Slf2 (FAM178A Products)
Background:	SMC5-SMC6 complex localization factor protein 2,FUNCTION: Plays a role in the DNA damage response (DDR) pathway by regulating postreplication repair of UV-damaged DNA and genomic stability maintenance. The SLF1-SLF2 complex acts to link RAD18 with the SMC5-SMC6 complex at replication-coupled interstrand cross-links (ICL) and DNA double-strand breaks (DSBs) sites on chromatin during DNA repair in response to stalled replication forks. Promotes the recruitment of the SMC5-SMC6 complex to DNA lesions. May play a role in SMC5-SMC6 complex recruitment for viral restriction. Forms a complex with SIMC1 and this complex is required to recruit SMC5-SMC6 complex to PML nuclear bodies and sites of viral replication. {ECO:0000250 UniProtKB:Q8IX21}.
Molecular Weight:	144.0 kDa
UniProt:	Q6P9P0

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

Application Details

Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months